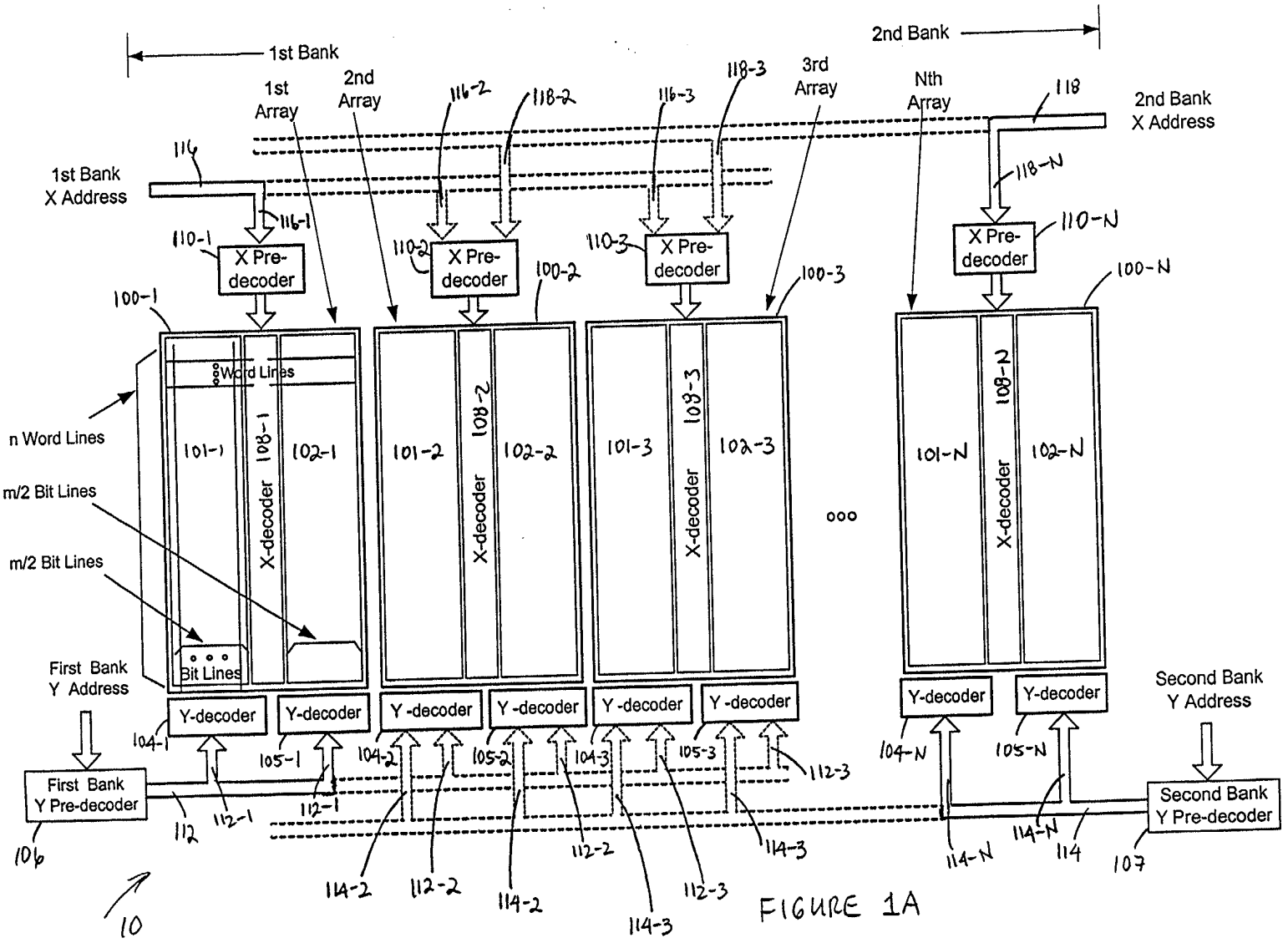
1st Bank
2nd Bank
1st Array
2nd Array
3rd Array
Nth Array
1st Bank X Address
2nd Bank X Address
X Pre-decoder
Word Lines
n Word Lines
m/2 Bit Lines
m/2 Bit Lines
Bit Lines
X-decoder
Y-decoder
First Bank Y Address
First Bank Y Pre-decoder
Second Bank Y Address
Second Bank Y Pre-decoder
10

FIGURE 1A

Atty. Docket No.: 020488-001000US
Applicant: Chang Wan Ha
Title: FLASH MEMORY HAVING A FLEXIBLE BANK PARTITION
Sheet 2 of 5

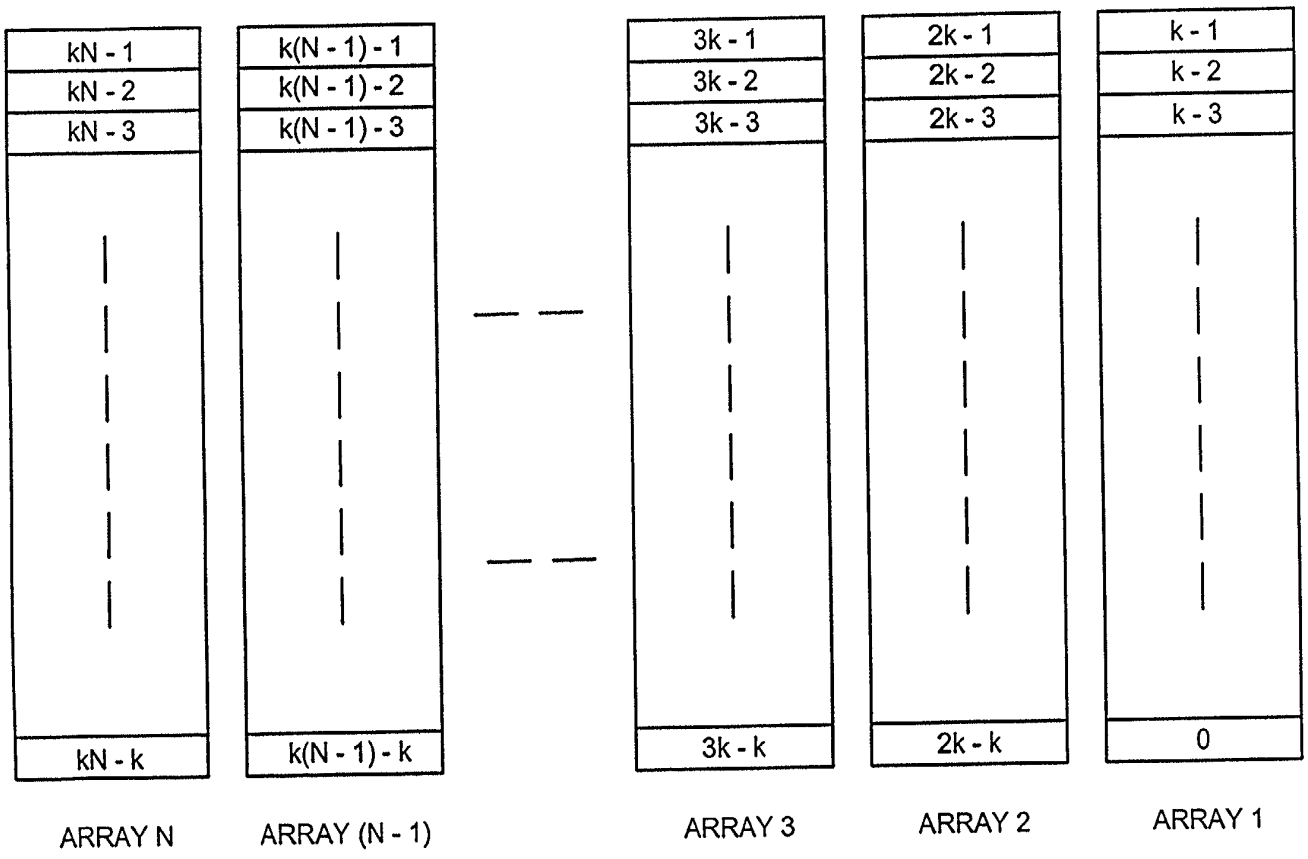

FIGURE 1B

Atty. Docket No.: 020488-001000US
Applicant: Chang Wan Ha
Title: FLASH MEMORY HAVING A FLEXIBLE BANK PARTITION
Sheet 3 of 5

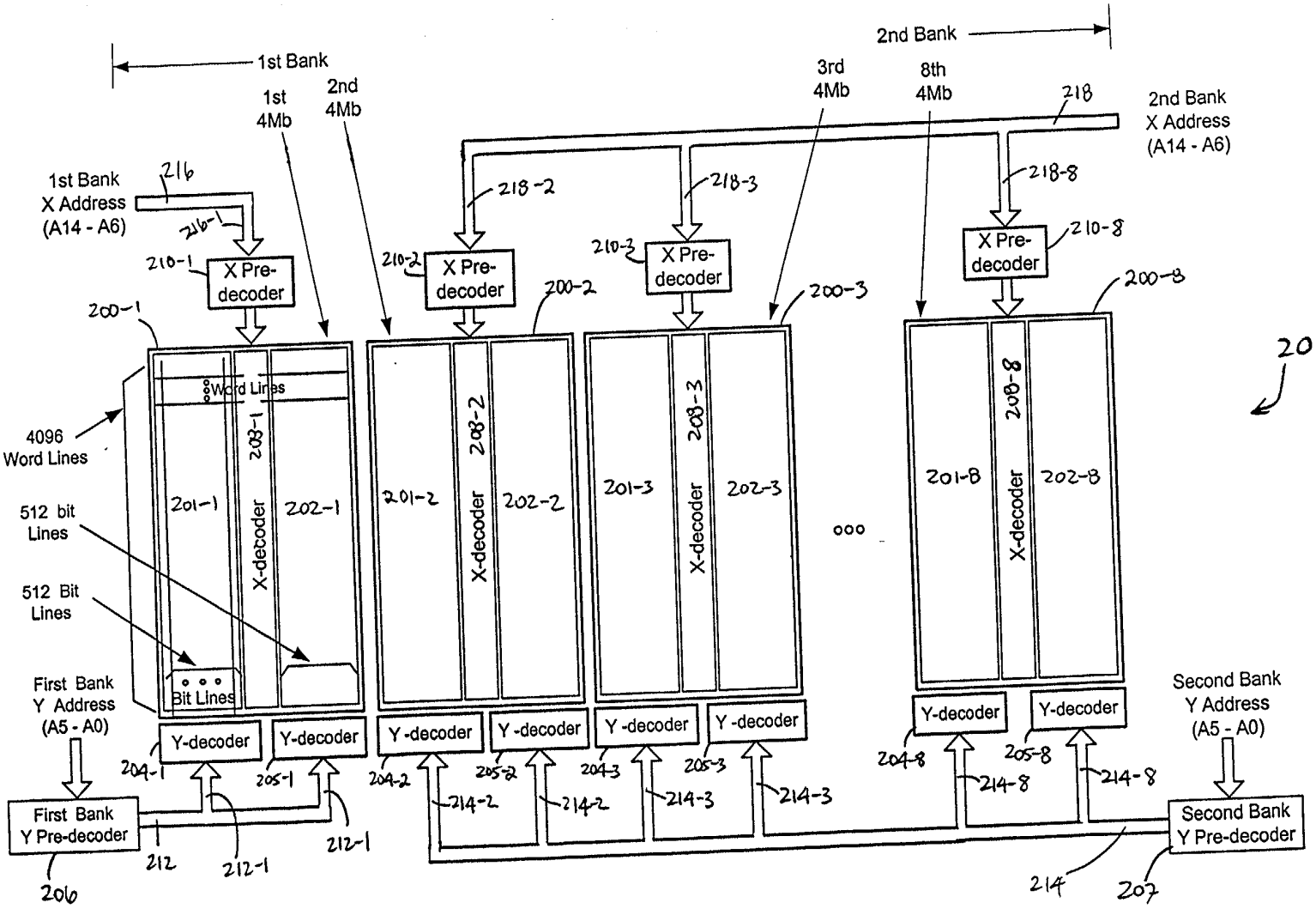

FIGURE 2A

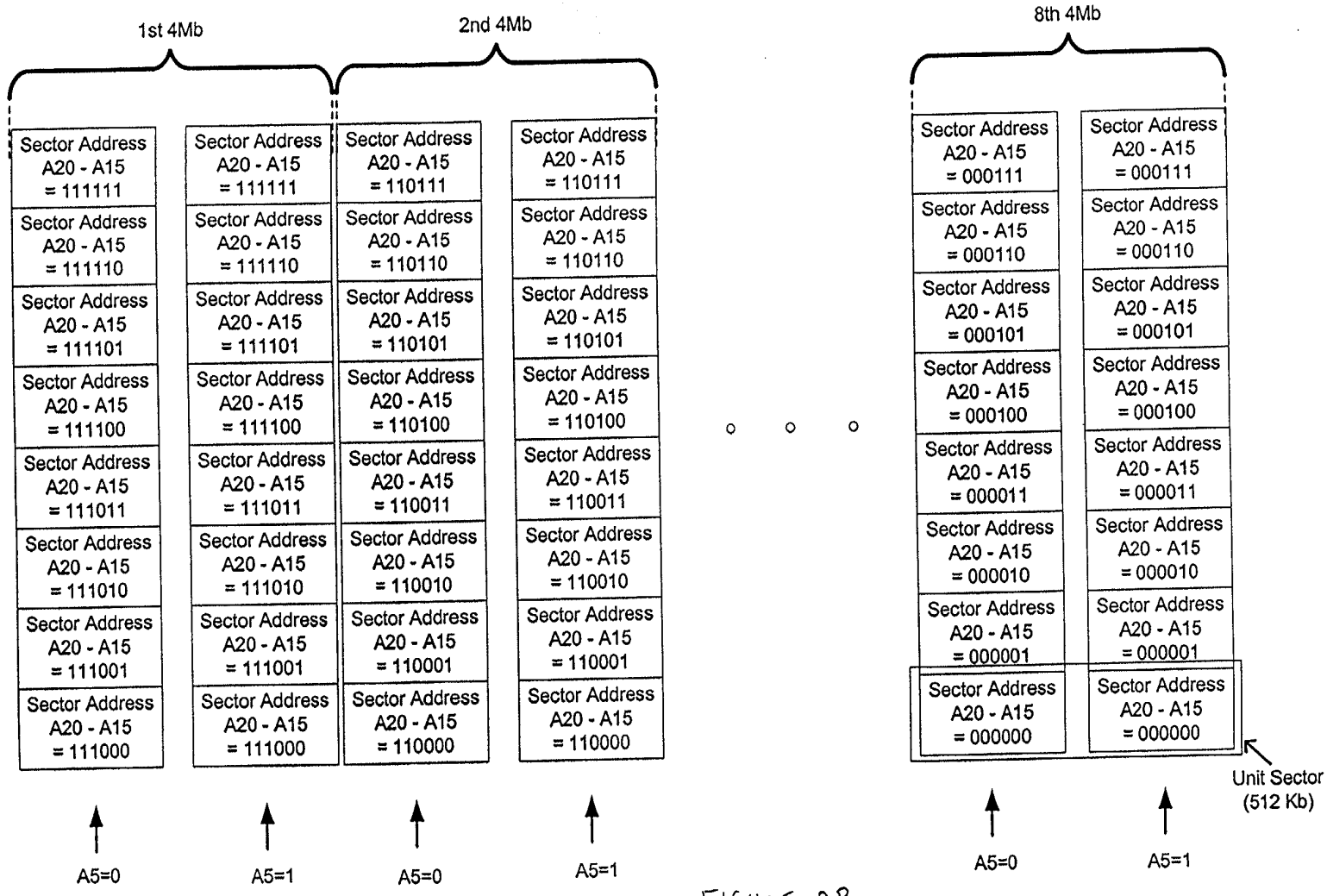
1st 4Mb
2nd 4Mb
8th 4Mb
Sector Address A20 - A15 = 111111
Sector Address A20 - A15 = 111110
Sector Address A20 - A15 = 111101
Sector Address A20 - A15 = 111100
Sector Address A20 - A15 = 111011
Sector Address A20 - A15 = 111010
Sector Address A20 - A15 = 111001
Sector Address A20 - A15 = 111000
Sector Address A20 - A15 = 110111
Sector Address A20 - A15 = 110110
Sector Address A20 - A15 = 110101
Sector Address A20 - A15 = 110100
Sector Address A20 - A15 = 110011
Sector Address A20 - A15 = 110010
Sector Address A20 - A15 = 110001
Sector Address A20 - A15 = 110000
Sector Address A20 - A15 = 000111
Sector Address A20 - A15 = 000110
Sector Address A20 - A15 = 000101
Sector Address A20 - A15 = 000100
Sector Address A20 - A15 = 000011
Sector Address A20 - A15 = 000010
Sector Address A20 - A15 = 000001
Sector Address A20 - A15 = 000000
Unit Sector (512 Kb)
A5=0
A5=1
A5=0
A5=1
A5=0
A5=1

FIGURE 2B

Mask	First Bank	Second Bank
Mask #1	4 Mb	28 Mb
Mask #2	8 Mb	24 Mb
Mask #3	12 Mb	20 Mb
Mask #4	16 Mb	16 Mb
Mask #5	20 Mb	12 Mb
Mask #6	24 Mb	8 Mb
Mask #7	28 Mb	4 Mb

FIGURE 3

FAILED - DO NOT SCAN